

MY GARDEN

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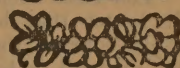
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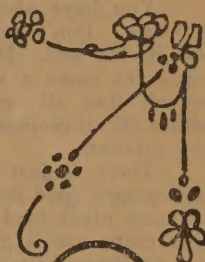
U. S. Department of Agriculture



AND
WHAT
TO
GROW



No. 170
APRIL
1935



ETOILE
DE
HOLLAND

ROSES.

Ayres' Rose List appears in this issue and it includes all the best of the new roses, introduced since we published our 1934 list, as well as the older sorts which have proved their merit in our Rose Gardens and in the gardens of our numerous customers. Don't despise the old ones, and if you do not wish to pay the higher prices quoted for the new ones, remember that they will be cheaper next year and will, by that time, have shown their value to some extent, so it is quite good policy to wait a year longer for them.

Issued by the Associated Firms

**C. STARKE
& CO LTD**

Agricultural and Horticultural
Seedsmen and Grain Merchants
∴ Stock and Poultry Foods ∴

MOWBRAY, Cape Town
Telephone 6-1101

TELE.: "SEEDSTARKE" MOWBRAY

**CHARLES
AYRES**

The Cape Florist & Nurseryman

(Telephone 6-3278)

THE NURSERIES, LIESBEEK ROAD

ROSEBANK, Cape Town

Seed Store: 12 Adderley Street
PHONE 2-1788. TELE.: "AYRES"

SEEDS AND SOWING.

By H. CHAS. STARKE, F.R.H.S.

In April you will make, as it were, a fresh start in the Vegetable Garden because the gardening year, if it ends at all, does so at this time. You can now sow and plant much more freely because the weather will be cooler and we will have more rain than during recent months and all this will help to provide conditions that are favourable to the growth of most vegetables.

This is the time, therefore, when you should plan to correct the errors of the past season and plan also such development as is possible to carry out. You will have been making good resolutions quite freely during the summer months about the work that you will do when the season is more favourable, so now is the time to put all those good resolutions into practice.

You have decided that you will have your soil more carefully drained this season. Don't forget that because it is very important to all crops. There are few plants, probably none in the vegetable garden, that can thrive on ill-drained soil. The space at our disposal is too small to tell you exactly how to go about the draining of your soil, and if we had the space we could not until you had told us all about your particular problem. Just think it out and plan to get all stagnant water out of the soil so that air can take its place and the plant roots can grow in the sweetened soil that will soon result.

You have also made a resolution to practise crop rotation much more carefully in future. Don't forget that. It helps to prevent disease and it conserves the plant food in the soil. It is a long story to tell you how this happens, and probably we would not make a very good job of it if we tried, but it is not difficult to think for yourself that all crops are not likely to exhaust the soil in exactly the same way; neither do all crops suffer from the same diseases, and so it must be beneficial to practice crop rotation.

There is just one big point about this crop rotation question and that is that the legumes (pod-bearing plants such as beans, peas, etc.) not only do not use exactly the same plant food as other crops but they actually provide nitrogen in the soil while other crops use it greedily. Do you see the big advantage here in planting a crop of Peas or Beans between crops that do not belong to the same order?

Another big question for the gardener is the feeding of the plants. You can buy a mixed fertiliser and if it is a good one, such as "**Kudu**" **General Garden Fertiliser**, you will be providing all the elements that are required to feed the crop, but the mechanical condition of the soil must also be taken into account or the best of fertilisers will not act to the best advantage. The soil of the vegetable garden, at its best, should be a good rich loam. If it is too light you should endeavour to make it heavier by the addition of clay, or if too heavy it must be broken up and made more friable by some means or other. In the latter instance much benefit can be gained by using **Agricultural Lime** and also by providing humus. This latter is a very important constituent of the soil of the vegetable garden. It can be obtained from several sources and in many forms. Farmyard manure, stable manure, and similar substance provide it and fertilise the crop at the same time. It can also be obtained from any waste vegetable matter that will decay, such as oak leaves or other rubbish that can conveniently be dug in. Don't forget though that pine needles are not beneficial for this purpose as they do not rot readily, and probably they are harmful owing to the presence of resin. If you cannot get enough material of a suitable nature for providing humus then it must be grown on the spot and dug in. If a leguminous crop is grown for this purpose there will be the additional advantage of providing nitrogen for the next crop.

Now, in order to help you to choose your crops to the best advantage for the crop rotation idea, we give below, in group form, the crops that are suitable for the vegetable garden in April.

Where conditions are favourable you may sow the following Vegetable seeds during April:

Legumes.—Broad Beans and Garden Peas. Stratagem and Wiehahn's Crescent are excellent varieties for sowing now.

Roots.—Beet, Carrots, Onions, Parsnips, Radishes, Swedes, Turnips, Leeks and Potatoes.

Brassicas.—Cabbage, Cauliflower, Kale and Kohl-Rabi. An early variety of Cauliflower should be chosen because it is very late for sowing this now.

Cucurbits.—None.

Tomatoes.—These can only be sown in specially favoured districts such as the lowveld of the Transvaal. In all other parts it will be too cold for Tomatoes when they reach the fruiting stage.

Miscellaneous.—Cape Gooseberry, Celery, Chervil, Chicory, Cress, Endive, Herbs, Lettuce, Mustard, Okra, Parsley, Purslane, Sage, Spinach, Thyme.

FARM CROPS.

The new season's seed grain is now ready and we are offering all the best varieties. Our **Recleaned Seed** is well known for the high yield that it gives; quite a natural result because the poorer grains are eliminated in the cleaning process and you buy only the best grain which can be sown thinner and thus costs no more than inferior seed.

Pretoria Branch.—To find the price, delivered Pretoria, of any article on this page, add 1/6 per 100 lbs to cover cost of railage, except where specially quoted.

RECLEANED SEED WHEAT—SAAD KORING.		A.	Per	5	25	100	200lb

Burbank. —Tip-bearded. Similar to "Florence" and nearly as early	...	1/3	4/9	16/6	30/-
Florence. —Tip-bearded. Perhaps the earliest of all varieties, has proved highly rust-resistant, a good white milling wheat	...	1/3	4/9	16/6	30/-
Gluretty. —Bearded. Finest of all the Gluyas-Rieti crosses and the best for our local conditions	...	1/3	4/9	16/6	30/-
Gluyas Early. —Tip-bearded. Highly rust-resistant, good yield-er, does not shell easily, an old and well-tried favourite...	...	1/3	4/9	16/6	30/-
Kleintrou. —Tip-bearded. Grain small, white, plump and soft, straw thin erect and medium height, tillers well, medium-late, good yielder	...	1/3	4/9	16/6	30/-
Kruger. —Beardless. Early, beautiful white grain of good milling quality, good rust resister, tillers well, good yielder but has weak straw	... ..	1/6	6/-	21/-	40/-
Pilgrim. —Bearded. Product of Elsenburg, good rust resister, rather weak in straw, short but well loaded ear, ripens a little earlier than Gluyas Early	... ..	1/6	5/-	17/6	32/6
Sterling. —Bearded. Fair rust resister, considered the best mill-ing wheat we have at present and consequently in good demand	... ..	1/6	5/-	17/6	32/6
Union 52. —Tip-bearded. Strong grower, grain white and very uniform, earliest of all "Union" selections, recom-mended for coastal area, especially for light rainfall	...	1/3	4/9	16/6	30/-
Vondeling. —This variety includes both bearded and beardless ears and might be separated on this character to form two varieties; originally selected by Mr. J. H. Basson of Moor-reesburg district; very good rust and drought resister, strong straw, large and well loaded ears, ripens with Gluyas Early	1/6	5/-	17/6	32/6

		A.	Per	5	25	100	150lb

Emmer (Fodder Wheat). —Very useful for stock feeding, either as green forage, hay or dry grain	...	1/3	4/9	16/6	23/3
		Pretoria prices		1/3	4/3	15/-	21/-

RECLEANED SEED OATS—SAAD HAWER.		A.	Per	5	25	100	150lb

Algerian. —Universally grown in the Western Province and standard variety for Cape Oathay, also unsurpassed for grazing purposes or for a grain crop				
Local Seed	1/-	4/-	13/-	17/6
	First Crop	1/1	4/6	16/-	22/6
	Imported Seed	1/3	5/-	19/-	27/6
Langgewens. —A new variety, of Algerian type, raised by the Stellenbosch-Elsenberg College of Agriculture; a heavy yielder and good rust resister	...	1/-	4/-	13/6	18/6
Sunrise. —A good white oat which is proving very successful in the Western Province, rust-resistant and very early	...	1/3	4/6	15/-	21/-

RECLEANED SEED BARLEY—SAAD GARS.		A.	Per	5	25	100	150lb

Cape Early. —Like "Cape Six-rowed," but a more rapid grower, very largely used for early green forage crops	...	1/3	4/9	16/6	22/6
Cape Six-Rowed. —Probably the greatest yielder in existence and very largely used by the Breweries for malting purposes ...	1/3	4/6	15/-	21/-

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FARM CROPS.

RECLEAVED BARLEY—WHEAT—KAAL GARS.		A.	Per	5	25	100	200lb
Indian Barley. —Bearded. A skinless barley grown for green forage but will also yield a heavy grain crop; not quite so early as the beardless type ...				1/-	3/9	12/6	22/6
Nepal or Barley Wheat. —Beardless. A skinless barley which is grown for the earliest green forage, the absence of awns is an advantage for green forage ...				1/6	5/9	20/-	37/6
RECLEAVED SEED RYE—SAAD ROG.		A.	Per	5	25	100	200lb
Cape Early. —A rapid grower and heavy yielder of the type known as Spring Rye; universally used in the Coastal grain districts ...				1/-	3/6	11/6	21/-
Stooling Rye. —Used extensively in the Transvaal, East Griqualand and similar areas; splendid variety for grazing ...				1/3	4/3	14/6	28/-
			Pretoria Prices	1/-	4/-	13/-	25/-

STARKE'S GRAIN PASTURE MIXTURE.

The best grazing varieties of Oats, Barley, Rye, Crimson Clover, Vetches and Rape are combined in this mixture in suitable proportion to give full and palatable grazing for **Livestock** and **Poultry** in the late autumn, winter and spring.

This mixture may be sown in early autumn and again in early spring. The quickest growing ingredient, Dwarf Essex Rape, will furnish grazing in six to eight weeks, under favourable conditions, and from then a succession of nutritious pasturage will follow until the natural spring and summer grazing is in full growth.

Sow 60 lbs. per acre. Price: 30 lbs 7/-; 60 lbs 12/6; 100 lbs 17/6. D

Pretoria Prices: 30 lbs 7/6; 60 lbs 13/6; 100 lbs 19/-.

THE "KUDU" PROCESS OF FORMALDEHYDE TREATMENT FOR SMUT IN GRAIN.

The **Kudu-Formal** treatment for smut is simple and effective. It is now almost universally used by the most successful grain farmers of the Western Province, who find it easier to work and more reliable than the old liming process.

The spores of smut are found everywhere, every season, and it is imperative that all seed should be treated before sowing. To omit this precaution is to jeopardise your crop, and fortunately the trouble and expense involved are so slight that none need omit it.

The seed may be treated on a clean floor or tarpaulin by spraying the solution over and working the seed over continually to make sure that every part of the seed is thoroughly wetted. Then work the grain up into a heap and allow to remain overnight, or for at least 5 hours, covered with sacks to keep in the gas that is generated. Afterwards, remove the covering and spread the seed sufficiently to allow it to dry off for sowing.

Another method is by dipping, and that also is described in the directions sent with every package of **Kudu-Formal**.

Price: Kudu-Formal.—Per 1 lb bot. 1/9, packed for post 2/9 (postage 2/-)
Per 1 gal. tin 8/6, ½ gal. 5/6, 1 gal. jar 13/6, ½ gal. jar 8/6. E.

At Pretoria: Per 1 lb bot. 2/-; 1 gal. tin 9/6; ½ gal. 6/-.

IMPROVE YOUR LAND.

You can improve your land and feed your animals at the same time by sowing **Lucerne** on your grain lands. Sow it in the last crop before leaving the ground to rest. It will improve the pasture and you will get a better crop of grain when you begin the next rotation. You need not spend much on it, you can sow anything from 10 to 25 lbs per acre and it will pay you well. We have a cheap grade of seed which is unsuitable for export but quite suitable for this job. It does not matter if there is a little dodder in it because that will not hurt your pasture and will be destroyed next time you plough the land.

Cheap Lucerne Seed for Grain Lands: Per 10 lbs 3/6; 25 lbs 6/9; 100 lbs 25/-.

Less 5 per cent. if Cash is sent with the Order. D.

At Pretoria: Per 10 lbs 3/6; 25 lbs 7/3; 100 lbs 26/6.

CONDITIONS OF SALE.

We give no guarantee express or implied (and none of our representatives is authorised to vary this condition in any way) as to description, quality or productiveness or as to any other matter of any seeds, bulbs or plants we sell, and we are not in any way responsible for them or in respect of the crop or failure of the crop. All quotations are given and orders accepted only on the understanding that these conditions are agreed to.

FARM CROPS. RECLEANEED LUCERNE SEED.

	D.	Per	1	5	25	100lb
Cape Lucerne (Provence Type). —More largely used than all other varieties, and large quantities are exported to other countries Finest Recleaned Seed	8d	3/-	13/6	50/-		
Chinese Lucerne	2/-	—	—	—		
Hunter River Lucerne. —Makes earlier growth than other varieties and usually gives a later cutting also	1/3	5/6	25/-	92/6		

FIELD PEAS.

This crop is now used on a considerable scale for green manuring, being well suited, especially in winter-rainfall areas, for this purpose; it fills the place, in winter cropping, that is taken by Cowpeas for summer cultivation.

	D.	Per	1	5	25	100lb
Black-Eyed Susan. —Makes a very heavy growth of herbage. Large seeded type	8d	2/9	12/6	45/-		
Cape Field Peas. —Yields heavy growth, splendid for green manuring of orchards and grain lands, or may be used for a dry crop. Per bag of 200lbs 40/-	6d	1/9	6/6	21/-		
Green Field Peas. —Favoured for table purposes on account of the green colour; its merits, otherwise, are about the same as the yellow variety. Per bag of 200lbs 57/6	6d	2/-	8/-	30/-		
				Imported Seed		
Partridge Field Peas. —More rust-resistant than other varieties. Per bag of 200lbs 40/-	6d	2/-	9/-	35/-		
					6d	1/9 6/6 21/-

VETCHES. ETC.

Vetches are an important crop in up-to-date agricultural practice, and there are many kinds to choose from. For the milder districts English Spring, Konigsberg and Peluschkin are preferred and for the colder areas Hairy Vetch and Purple Vetch are recommended. Peluschkin appears to be more closely allied to the Peas than to the Vetches and is giving very good results.

	D.	Per	1	5	25	100lb
English Spring Vetch. —Splendid for green forage, silage or for hay, and may be sown with oats or barley in proportions varying from 10% to 50%	9d	3/-	13/6	47/6		
Hairy Vetch. —A small-seeded variety; recommended for sandy soils and cold areas; use 15 lbs per acre if sown alone	1/-	4/-	17/6	63/-		
Konigsberg Spring Vetch. —In its habits and preferences this is similar to "English Spring"	8d	3/-	10/6	37/6		
Peluschkin Vetch. —A large-seeded variety	6d	1/9	6/9	25/-		
Polish Spring Vetch. —We have imported this as a substitute for Konigsberg Spring which is very scarce; we shall be glad of reports as to its success or otherwise	6d	2/-	8/6	30/-		
Purple Vetch. —Much favoured in cold districts	9d	3/-	13/6	50/-		
Dwarf Essex Rape. —This crop is now very largely grown in the Western Province for grazing purposes; it is important to have the right variety as some kinds are unsuitable	6d	2/3	10/6	40/-		
Chou Moellier or Marrow Kale. —Both leaves and stem may be used for stock-feeding; a very profitable crop	1/6	6/6	30/-	110/-		
Thousand Headed Kale. —A tall branching cattle cabbage, produces a heavy crop of succulent leaf greatly relished by cattle, sheep, pigs, poultry, etc.	3/-	13/6	60/-	230/-		
White Mustard. —Splendid grazing crop for sheep, a very rapid grower; table mustard is produced from the seed of this variety	1/-	4/6	17/6	60/-		

VOORWAARDES VAN KOOP EN VERKOOP.

Ons gee geen waarborg, direk of indirek (en geen een van ons verteenwoordigers is gemagtig om die voorwaardes te verander nie) met betrekking tot deskripsie, kwaliteit of produktieweteit, of enige ander saak omtrent die bolle, saad of plante wat ons verkoop nie. Alle kwotasies word gegee en bestellings aangeneem, slegs op die voorwaarde dat met die kondiesies ooreengestem word.

VYF PERSENT AFSLAG VIR KONTANT MET BESTELLING.

VEGETABLE TRANSPLANTS.

We give below a list of plants that we expect to have ready during this month. Some of these are now ready, but others will not be ready till about the middle of the month or later. All orders are dealt with in rotation and will be despatched when the plants are ready. If you are unable to wait, please mark your order accordingly and we will send only what is ready, cancelling the remaining portion of the order. F.

	Posted (Within the Union)		Local Prices.	
	Per 100	1000	100	1000
Beet, Blood Red	2/-	12/6	1/3	8/6
Beet, Flat Egyptian	2/-	12/6	1/3	8/6
Brussels Sprouts	2/-	12/6	1/3	8/6
Cabbage, Cape Spitzkool	2/-	12/6	1/3	8/6
Cabbage, Copenhagen Market	2/-	12/6	1/3	8/6
Cabbage, Early Drumhead	2/-	12/6	1/3	8/6
Cabbage, Early Jersey Wakefield	2/-	12/6	1/3	8/6
Cabbage, Golden Acre	2/-	12/6	1/3	8/6
Cabbage, Green Globe Savoy	2/-	12/6	1/3	8/6
Cabbage, Large Oxheart	2/-	12/6	1/3	8/6
Cabbage, Mammoth Red Drumhead	2/-	12/6	1/3	8/6
Cabbage, Starke's Improved Spitzkool	2/-	12/6	1/3	8/6
Cape Gooseberry (9d. doz., posted 1/3)	5/3	—	4/6	—
Cauliflower, All the year round	2/-	12/6	1/3	8/6
Cauliflower, Early Italian Giant	2/-	12/6	1/3	8/6
Cauliflower, Southern Cross	2/-	12/6	1/3	8/6
Cauliflower, Starke's Invincible Cape	2/-	12/6	1/3	8/6
Cauliflower, Super Snowball	2/-	12/6	1/3	8/6
Cauliflower, Veitch's Autumn Giant	2/-	12/6	1/3	8/6
Celery, Solid White (6d. doz.; posted 1/-)	3/-	—	2/6	—
Kale, Tall Curled	2/-	12/6	1/3	8/6
Kale, Thousand Headed	2/-	12/6	1/3	8/6
Kohl Rabi, Early White Vienna	2/-	12/6	1/3	8/6
Leek, Large Flag	1/6	10/6	1/-	6/6
Lettuce, Curled Neapolitan	2/-	12/6	1/3	8/6
Lettuce, New York	2/-	12/6	1/3	8/6
Onion, Cape Straw Coloured	1/6	10/6	1/-	6/6
Onion, Early Flat Yellow Cape	1/6	10/6	1/-	6/6
Onion, White Queen Early	1/6	10/6	1/-	6/6
Parsley, Curled (6d. doz.; posted 1/-)	3/-	—	2/6	—
Spinach Beet, Green Cutting	2/-	12/6	1/3	8/6
Spinach Beet, Yellow Cutting	2/-	12/6	1/3	8/6
Lavender, Mint, Sage, Thyme, Rosemary, 3/- doz., posted 3/6				

THE FLOWER GARDEN.

Seeds to Sow.—Where conditions are favourable you may sow the following Flower Seeds during this month: Anemone, Antirrhinum, Aquilegia, Barberton Daisies, Bellis perennis, Calendula, Candytuft, Canna, Canterbury Bells, Carnations, Chrysanthemum, Cineraria, Clarkia, Cornflower, Cyclamen, Dianthus, Foxglove, Geum, Godetia, Gypsophila, Hollyhock, Larkspur, Linaria, Linum, Lobelia, Lupinus, Marigold, Mignonette, Musk, Myosotis, Nasturtium, Nemesia, Nemophila, Nigella, Pansy, Pentstemon, Petunia, Ranunculus, Salpiglossis, Salvia, Scabious, Schizanthus, Statice, Stocks, Sweet Peas, Thunbergia, Tropaeolum, Valeriana, Verbena, Virginian Stock and Wallflower.

LILIUMS.

We draw special attention to the Liliums offered last month. These are still available, as are most of the bulbs listed in February. Send your orders promptly, the season soon ends.

	Price each	doz	100	1000
L. regale. —A vigorous grower with sturdy stems, 4 to 5ft., covered with long lanceolate foliage; centre of flower flushed with yellow, shading to white at the outer edges; outside streaked with brown; exceedingly beautiful; thrives in any good rich soil and is one of the easiest Lilies to grow	1/3	10/6	80/-	—
L. tigrinum sinense. —The Single Tiger Lily. Deep orange-red flowers, heavily blotched purple, stems 2 to 4ft.	1/-	6/-	40/-	350/-

FIVE PER CENT. CAN BE DEDUCTED IF CASH IS SENT WITH ORDER.

BEDDING AND BORDER PLANTS.

We give below a list of plants that we expect to have ready during the month. Some of these are now ready but others will not be ready till about the middle of the month or later. All orders are dealt with in rotation and will be despatched when the plants are ready. If you are unable to wait, please mark your order accordingly and we will send only what is ready, cancelling the remaining portion of the order. F.

	Posted (Within the Union)		Local Prices	
	Per doz.	100	doz.	100
ANTIRRHINUMS—LEUBEKKIES.				
Blood Red. —Fine deep colour, tall	1/9	8/6	1/6	7/6
Bonfire. —Bright cinnabar red, yellow blotch	1/9	8/6	1/6	7/6
Crimson King. —Deep velvety crimson	1/9	8/6	1/6	7/6
Harmony. —Rich terra-cotta pink, yellow centre	1/9	8/6	1/6	7/6
Orange Beauty. —Orange-scarlet with gold lip	1/9	8/6	1/6	7/6
Pink Domino. —Soft clear rose-pink	1/9	8/6	1/6	7/6
Queen Victoria. —Very large white	1/9	8/6	1/6	7/6
Torchlight. —Vivid orange with yellow centre and carmine tint	1/9	8/6	1/6	7/6
Yellow King. —Fine rich yellow, large flower	1/9	8/6	1/6	7/6

ANTIRRHINUM MAXIMUM—GIANT STRAIN.				
Fordhook Rose. —Rose-pink and yellow blending into a soft rose	1/9	8/6	1/6	7/6
Orchid. —Bright mauve-pink with a slightly deeper tube ...	1/9	8/6	1/6	7/6
Sunnybrook. —Rich intense golden yellow shaded salmon and orange	1/9	8/6	1/6	7/6
Wallflower. —Rich deep coppery crimson	1/9	8/6	1/6	7/6

PANSIES—GESIGGIES.				
Giant Golden Queen. —Large deep yellow with black eye ...	1/3	6/-	1/-	5/-
Large Flowering Mixed. —A fine assortment of colour ...	1/3	6/-	1/-	5/-
Masterpiece Mixed. —Beautifully blotched and curled ...	1/3	6/-	1/-	5/-
Parisian Large Stained. —Mixed, very fine	1/3	6/-	1/-	5/-
Roggli Giant. —Very large, varied colouring	2/6	12/-	2/-	10/-

STOCKS—VIOLETTE.				
Abundance. —Carmine-rose, very large	1/6	7/6	1/3	6/-
Beauty of Nice. —Flesh-pink, early flowering	1/6	7/6	1/3	6/-
Cote d'Azur. —Blue of Capri	1/6	7/6	1/3	6/-
Crimson King (Etincelante). —Bright crimson	1/6	7/6	1/3	6/-
Empress Elizabeth. —Beautiful bright rose	1/6	7/6	1/3	6/-
Queen Alexandra. —Pretty rose lilac	1/6	7/6	1/3	6/-
Rose of Nice. —Old rose, very early	1/6	7/6	1/3	6/-
Souvenir of Monaco. —Brilliant crimson, very early ...	1/6	7/6	1/3	6/-
Souvenir of Monte Carlo. —Canary yellow	1/6	7/6	1/3	6/-
Violet of Parma. —Strong grower, free flowering, light violet	1/6	7/6	1/3	6/-
German Ten-Week Mixed. —A choice strain	1/3	6/-	1/-	5/-
"Nice" Stocks Mixed. —Including the best colours	1/3	6/-	1/-	5/-

CALENDULAS.				
Campfire. —Large flat blooms on stout stems	1/3	6/-	1/-	5/-
Orange Shaggy. —New. A distinct break in Calendulas, rich orange blooms of "shaggy" appearance on long stems ...	2/6	12/-	2/-	10/-
Radio. —Orange with quilled petals	1/3	6/-	1/-	5/-
Sulphur Crown (Lemon Queen). —Golden yellow with dark centre	1/3	6/-	1/-	5/-

GENERAL LIST OF BEDDING PLANTS.				
Antirrhinum majus. —Tall varieties in mixture	1/3	6/-	1/-	5/-
Bellis perennis. —Double Daisies, mixed colours	1/3	6/-	1/-	5/-
Iceland Poppy, Art Strain. —Charming colours	1/3	6/-	1/-	5/-
Iceland Poppy, El Monte. —Deep tangerine	1/3	6/-	1/-	5/-
Iceland Poppy, Sandford's Aurora. —Giant strain, long stems	1/3	6/-	1/-	5/-
Lobelia, Crystal Palace. —Dark blue	1/3	6/-	1/-	5/-
Lobelia, Emperor William. —Light blue	1/3	6/-	1/-	5/-
Marigold, Prince of Orange. —Immense flowers, long stout stems	1/3	6/-	1/-	5/-
Marigold, Lemon Queen. —Greatly improved	1/3	6/-	1/-	5/-

GENERAL LIST OF BEDDING PLANTS

(Continued.)

	Posted (Within the Union)		Local Prices	
	Per doz.	100	doz.	100
Nemesia, Blue Gem.—Beautiful forget-me-not blue ...	1/3	6/-	1/-	5/-
Nemesia, Fire King.—Scarlet ...	1/3	6/-	1/-	5/-
Nemesia, Mixed.—Fine colours ...	1/3	6/-	1/-	5/-
Phlox Drummondii.—Large-flowered strain ...	1/3	6/-	1/-	5/-
Viola, Blue Perfection.—A charming shade ...	1/3	6/-	1/-	5/-
Viola, Purple Queen.—Rich violet ...	1/3	6/-	1/-	5/-

GENERAL LIST OF HERBACEOUS PLANTS.

Agapanthus.—Blue and white varieties ...	7/6	—	6/-	40/-
Agapanthus, Table Mountain Variety.—Dark blue ...	4/6	—	4/-	25/-
Alternanthera.—Edging plant ...	2/6	12/6	2/-	10/-
Aquilegia.—Blackmore & Langdon's long-spurred hybrids ...	2/6	12/6	2/-	10/-
Barborton Daisy Hybrids ...	5/-	30/-	4/6	27/6
Campanula fragilis ...	6/6	—	5/-	—
Canterbury Bells.—Mixed seedlings ...	2/-	10/-	1/6	7/6
Carnations, Starke's Perpetual Giant.—In separate colours:				
Crimson, Red, Rose and Yellow—or Mixed ...	5/-	30/-	4/6	27/6
Carnations, Giant of Nice.—Salmon ...	5/-	30/-	4/6	27/6
Cheiranthus kewensis.—Winter flowering wallflower ...	2/6	12/6	2/-	10/-
Cynoglossum amabile.—Beautiful rich blue ...	2/-	10/-	1/6	7/6
Delphinium belladonna.—Best for cut-flower ...	Seedlings	3/6	—	3/-
Delphinium, Blackmore & Langdon's.—Prize Strain ...	Seedlings	5/9	—	5/-
Delphinium, Blue Butterfly ...	Seedlings	2/6	—	2/-
Delphinium, Clivedon Beauty.—Improved Belladonna ...	Seedlings	4/-	—	3/6
Delphinium, Excelsior Strain ...	Seedlings	4/-	—	3/6
Foxgloves.—Choice Mixed ...	2/6	12/6	2/-	10/-
Fuchsias.—Ex pots 1/- each, posted 1/3 ...	7/6	—	6/-	—
Gazania.—Orange, large Daisy-flowers, very showy ...	2/6	12/6	2/-	10/-
Geranium, Ivy-Leaved Huntsman.—Red ...	5/-	32/6	4/-	25/-
Geranium, Zonal.—Bedding ...	5/-	32/6	4/-	25/-
Geranium, Zonal Paul Crampel.—Fiery scarlet, fine bedder ...	5/-	32/6	4/-	25/-
Geum, Lady Stratheden.—Fine double yellow ...	2/6	12/6	2/-	10/-
Geum, Mrs. Bradshaw.—Double crimson ...	2/6	12/6	2/-	10/-
Granadilla.—Edible, ex pots, 1/- each, posted 1/3 ...	9/-	—	7/6	—
Gypsophila paniculata.—Perennial, large panicles of flowers, 1/- each, posted 1/3 ...	5/-	—	4/6	—
Hollyhock, Chater's Double.—A fine strain ...	2/6	12/6	2/-	10/6
Hydrangeas.—2/6 and 3/6 each ...	—	—	—	—
Impatiens.—Several varieties, mixed—out of pots ...	6/6	—	6/-	—
Iresine aureo reticulata.—Leaves gold-veined ...	2/6	12/6	2/-	10/6
Iresine Herbstii.—Leaves crimson with rose veins ...	2/6	12/6	2/-	10/6
Lavandula spica.—English Lavender ...	3/6	—	3/-	—
Lavandula dentata.—French Lavender ...	4/6	—	4/-	—
Nasturtium, Fireball.—Ex pots 1/- each, posted 1/3 ...	10/-	—	9/-	—
Pelargoniums.—In variety ...	10/6	—	9/-	—
Pentstemon.—Large flowered, mixed ...	4/6	—	3/6	—
Petunia, Gloria.—Dwarf bedder, bright rosy magenta, white throat ...	1/6	7/6	1/3	6/-
Petunia violacea.—Deep violet-purple, enormous flower ...	3/6	17/6	3/-	15/-
Polyanthus, Blackmore & Langdon's.—A superb strain ...	7/-	—	6/-	—
Salvia farinacea.—Light bright lavender ...	4/6	—	4/-	—
Salvia patens.—Sky blue ...	6/-	—	5/-	—
Salvia splendens.—Brilliant scarlet flowers ...	3/-	—	2/6	—
Salvia splendens, Vesuvius.—Dwarf type, about 10 inches, bright scarlet ...	3/-	—	2/6	—
Salvia violacea, Maroon Prince.—Very deep violet ...	6/-	—	5/-	—
Salvia coccinea.—Fiery scarlet, dwarf ...	3/-	—	2/6	—
Sedum.—Yellow-flowered, for carpeting in damp situations, per clump 1/-, posted 1/3 ...	—	—	—	—
Statice latifolia.—Perennial, deep lavender-blue flowers, 1/- each, posted 1/6 ...	9/-	—	8/-	—
Statice macrophylla.—Perennial, light blue, large clusters, very fine, 1/- each, posted 1/6 ...	9/-	—	8/-	—
Thalictrum.—A very graceful plant for the herbaceous border, 1/- each, posted 1/6 ...	9/-	—	8/-	—

GENERAL LIST OF HERBACEOUS PLANTS (Continued.)

	Posted (Within the Union)		Local Prices	
	Per doz.	100	doz.	100
Verbena, Auricula-eyed. —Choice mixed	3/-	15/-	2/6	12/6
Verbena, Defiance. —Scarlet	3/-	15/-	2/6	12/6
Verbena, Dark Blue. —Very effective	3/-	15/-	2/6	12/6
Verbena erinoides. —Violet, fine for carpeting	3/-	15/-	2/6	12/6

ARUMS.

	Price each	doz.	100
Zantedeschia aethioplca. —The Cape White Arum. Easily grown as it adapts itself to summer or winter rainfall conditions ...	9d	3/-	20/-
Zantedeschia angustiloba. —Yellow with dark blotch in spathe ...	2/-	18/-	120/-
Zantedeschia Elliottiana. —A beautiful species having dark green leaves with silvery spots and deep yellow spathe making a very showy flower	3/6	36/-	—

GLADIOLUS.

PRIMULINUS HYBRIDS.

The following imported corms are available this month and are suitable for immediate planting. The Primulinus varieties are more suitable for late planting and that is why we arranged for these to come forward in the last shipment of the season. They are not so large as the Garden Hybrids but that does not necessarily detract from their beauty. Try them, they are very dainty and fine for artistic arrangement.

	Each	doz.	100	1000
Dorothy Wheeler. —Beautiful deep rose-pink, large and strong flower	9d	6/-	40/-	380/-
Fire Queen. —A splendid bright scarlet primulinus, very fine ...	8d	4/6	30/-	285/-
Golden Drop. —Bell-shaped golden yellow flowers, a most artistic variety	8d	4/6	30/-	285/-
Jewel. —Delicate salmon-pink with large golden blotch	8d	4/6	30/-	285/-
Krelage's Favourite. —Bright red, free flowering	6d	3/6	20/-	185/-
Maiden's Blush. —Beautiful delicate pink, stems tall and slender, splendid cut-flower	6d	2/6	15/-	135/-
Midsummer Dream. —A geranium-red of great beauty, large and well expanded flowers on a tall thin stem; fine exhibition variety	8d	4/6	30/-	285/-
Myra. —Salmon flush on yellow ground	8d	4/6	30/-	285/-
Orange Brilliant. —A most attractive variety, the name amply describes its colour	6d	3/-	20/-	185/-
Orange Queen. —Beautiful orange; large flowers on strong stem ...	6d	2/6	15/-	135/-
Psyche. —Salmon red	6d	3/6	22/6	210/-
Rosaura. —Nearly unicoloured red, small vermilion-red centre... ..	6d	3/6	25/-	235/-
Salmon Beauty. —Deep salmon with rich salmon-yellow throat, strong grower	8d	4/6	30/-	285/-
Scarlet Cardinal. —Bright scarlet, very fine	6d	3/-	20/-	185/-
Shell Pink. —Shell-pink with beautifully mottled white throat... ..	1/-	8/6	60/-	585/-
Souvenir. —Yellow	6d	2/6	17/6	160/-

MONTBRETIAS.

These fine subjects have been greatly improved in recent years and are now available in splendid variety, as the following list will show:

	Price	each	doz.
Fire King. —Fine brilliant red, late flowering	8d	4/6	
Frans Hals. —Orange-yellow with brown spots, tall	8d	4/6	
George Davison. —Pure yellow, large flowers, fine branched stems ...	8d	4/6	
His Majesty. —Centre clear yellow shading into brilliant crimson-scarlet ...	1/9	16/-	
James Coey. —Large rich dark red with pale orange centre, robust grower ...	1/3	10/-	
Lady Hamilton. —Apricot-orange	1/-	8/-	
Lord Nelson. —Deep orange-scarlet, very effective	1/-	8/-	
Rheingold. —Deep golden yellow, well-opened flowers, good texture ...	1/3	9/-	
Star of the East. —Beautiful orange flowers of immense size	2/-	18/-	
Tigridle. —Yellow, centre tinged brown	9d	5/-	
Una. —Pale orange with crimson reverse, inner surface with crimson markings at the base	1/-	8/-	
Vesuvius. —Bright vermilion-red, late flowering	1/3	10/-	

BEARDED IRISES.

The most stately of all the Irises and the most satisfying too if they get fair treatment, but they must not be put in any odd corner and neglected. The Bearded Irises are in growth throughout the year and for that reason they must be put in a situation that will be favourable to them at all seasons. They like a well-drained soil but it must be moist enough to encourage good growth in our dry summer unless they can be watered sufficiently at that time. Perhaps their requirements are best described as a good garden loam, well drained and fairly warm in winter with sufficient moisture in summer, either natural or artificially supplied. We are listing below some very choice varieties at moderate prices.

Height: The height of stems is quoted to give an idea of the possibilities of the variety, but there is no certainty that they will reach that height under all conditions. If you can give them the situation that suits them best and the treatment they like, you will no doubt get it, but Irises will flower on much shorter stems when conditions are not favourable.

	Price	each	doz.
Abenda. —Beautiful madder-crimson overlaid bronze; early, tall branching stems, 4ft.	6/-		66/-
Ambassador. —Standards greyish blue, falls deep velvety violet with deep yellow at the haft, strong grower, tall stems, 4ft., a variety of outstanding merit	2/-		18/-
Amber. —Rich golden yellow with 3ft. stems, very free flowering ...	3/6		36/-
Aphrodite. —Flowers, of a pleasing shade of uniform violet-pink, are not over large but of good strong texture, 5ft.	6/-		66/-
Corrida. —An even shade of pale blue, fine stems, 3ft.	2/-		18/-
Duke of Bedford. —Large flowers, rich violet-purple, stems tall and branched, 4ft.	6/-		66/-
Duke of York. —Large mauvy blue flowers with orange beard on a tall branching stem, 4ft.	3/6		36/-
Eldorado. —A fine blending of yellowish bronze with heliotrope and violet purple shades, 2½ft.	3/-		30/-
Flaming Sword. —Deep golden yellow, falls maroon edged gold, 2½ft. ...	3/-		30/-
Florentina. —Large white sweet scented, tall grower; per 100 20/- ...	9d		3/-
Frithjof. —A pale blue and dark blue iris of noble form	2/-		18/-
Fro. —Deep golden yellow, falls brown-red, edged gold, 2½ft.	5/-		54/-
Kharput. —Violet-purple, extra large flowers	1/-		9/-
Kochi (Atrovioleacea).—Beautiful deep reddish purple	2/6		24/-
Lac Leman. —Lavender standards and violet falls, tall stems, 4ft. ...	4/-		42/-
Lent. A. Williamson. —Standards soft violet, falls deep violet-purple, very rich colour, tall stems, 3ft.	3/6		36/-
Leone Trenance. —Light blue, very free-flowering, 2ft.	1/6		—
Lord Lambourne. —Flowers rose-fawn with bronze, falls deep crimson, tall branched stems, a grand iris, 4ft.	7/6		84/-
Lord of June. —Standards pale blue, falls darker blue, large flowers, sweetly scented	2/-		18/-
Mrs. H. F. Bowles. —Standards soft brown overlaid gold, falls brilliant red, very fine	6/-		66/-
Niebelungen. —Olive and purple, free flowering, tall stems, 3ft.	3/-		30/-
Prosper Laugier. —Deepest velvety crimson and velvety purple, tall stems, 3ft.	2/-		18/-
Purple King (Atrovioleacea).—Purple-violet	1/-		6/-
Queen Flavia. —Deep golden yellow	3/-		30/-
Rheinnixe. —Standards white, falls deep violet-purple with narrow white edge, strong grower, tall stems, 3ft.	2/-		18/-
Susan Bliss. —Uniform shade of deep rose-pink, carries as many as four open flowers, tall stems, 3½ft.	4/-		42/-
Zwanenburg. —Standard bronzy, falls old gold with crimson and maroon flakes	3/-		30/-

APPRECIATIONS.

Natal, February 22nd, 1935.—I enjoy your book very much and have learnt a great deal of gardening hints from it.

Natal, February 2nd, 1935.—First box of bulbs arrived in excellent order.

Knysna, March 6th, 1935.—All the plants received from you were a great success.

Knysna, March 14th, 1935.—Many of my friends are interested in your plants, especially the Chrysanthemums, which are doing beautifully.

Roses.

For your convenience in making a selection we are listing Roses in four groups, viz.: Dwarfs, Climbers, Ramblers and Polyanthus, while the **New Roses** are shown separately in an additional group at the beginning of the lists. Each group is in alphabetical order and any variety can thus be found with the minimum of trouble if the name and type are known.

Dates, where given, indicate the year of introduction overseas.

Abbreviations used: (A.B.) Austrian Briar, (A.H.) Austrian Hybrid, (H.A.B.) Hybrid Austrian Briar, (H.N.) Hybrid Noisette, (H.P.) Hybrid Perpetual, (H.T.) Hybrid Tea, (Hy. Brac.) Hybrid Bracteata, (M.R.) Multiflora Rambler, (N.) Noisette, (P.) Pernetiana, (Poly. Pom.) Polyanthus Pompon, (T.) Tea, (W.) Wichuriana, (W.R.) Wichuriana Rambler, (H.W.) Hybrid Wichuriana.

NEW ROSES FOR 1935.

We give below a very fine list of new varieties imported for this season. They are all quite new varieties that have only just been brought into commerce and we think we are fortunate, this season, in being able to give you such a comprehensive list of new roses.

These varieties have been obtained at considerable cost and prices, though moderate in the circumstances, are considerably higher than for other, and perhaps equally good, varieties in our general list. If you do not feel disposed to pay these prices you will find an excellent selection in the general list and these new varieties will undoubtedly be cheaper next season.

There is no reduction for quantity on the new varieties.

F.

Postage and Packing is the same as quoted for in the general list.

FIVE PER CENT. CAN BE DEDUCTED IF CASH IS SENT WITH ORDER.

Price each

Ami F. Mayery (H.T.).—Brilliant-scarlet crimson, superb colour and distinctly perfumed; splendid long bud, large flower of good form, strong stem, vigorous grower	3/6
August Noack (H.T.).—Scarlet; flowers large and full on long and strong stems; one of the best sports of "Columbia"	5/-
Blaze .—Has the blazing colour of Paul's Scarlet Climber and the ever-blooming habit of Gruss an Teplitz; a very vigorous climber	3/6
Catalonia (P.).—Cardinal red lighted with yellow at the base of petals; large full flower of elegant form and exquisite perfume; vigorous grower	5/-
Charmer (H.T.).—Light rosy pink shading to yellow; large bloom fairly full, good texture; good stems; fragrant	5/-
Heros (H.T.).—A red rose of great beauty, the splendid colouring never fades or blues, large and well filled flowers, highly scented	3/6
Jan Abbing (H.T.).—Brilliant salmon-red with yellow variations, never blues; well formed bud and perfect shaped blooms; robust upright growth	5/-
Kidway (H.T.).—Sun yellow striped and shaded orange; full flower of perfect form on a good stem; robust growth, handsome foliage	3/6
Lord Lonsdale (H.T.).—Brilliant unfailing daffodil yellow	5/-
Mrs. E. Wood (H.T.).—Light buff-yellow delicately tinted yellowish salmon; exceptionally long bud, large flower, good substance, sweetly fragrant	5/-
Nigrette (H.T.).—Velvety black, the darkest of all roses in commerce, in bud state almost black, sweetly scented; has caused a sensation wherever exhibited	2/6
Portadown Fragrance (H.T.).—Orange-salmon-pink, flushed orange-scarlet; large full and well-formed flowers; good grower	7/6
Portadown Glory (H.T.).—Clear canary yellow, rich and lasting colour; well formed flower; vigorous grower and practically thornless	7/6
Princess of Orange (Cl. Poly. Pom.).—Glowing orange, the climbing form of Gloria Mundi; does not flower on new growth but on one year old wood like the Ramblers	2/6
Reichspräsident von Hindenburg (H.T.).—Silvery pink shaded carmine, outside dark glowing pink; very large flower; centre petals peony shaped; strongly scented; a very fine rose	2/6
Reward (H.T.).—Delightful shades of yellow and rose, long pointed bud, very decorative flower of deep spiral form, fairly large, strong erect stems, vigorous grower	7/6
Rosette (H.T.).—Glowing rosy red lightly shaded orange with a yellow base; flowers full and fairly large on strong stems and sweetly perfumed; erect growth	5/-

NEW ROSES FOR 1935.

- Sanguinaire** (Hy. R. & P.).—Brilliant blood red strongly suffused orange, flowers continuously, a beautiful and distinct variety ... 3/6
- Wilhelm Breder** (H.T.).—In America this rose will be named "Glowing Sunset" and that fully describes its colour; flower large and full with strong old rose scent; vigorous growth and erect ... 5/-

DWARF OR BUSH ROSES.

Prices: Varieties priced at 2/- are 10/- for six, 18/- per dozen, 70/- per 50, 130/- per 100. Higher prices are reduced 6d. each when included in a dozen or larger quantity. F.

Packing and Postage: 1/6 per dozen, 1/- per $\frac{1}{2}$ dozen, 9d. per $\frac{1}{4}$ dozen or less. This includes packing and postage within the Union of South Africa only. Other parts extra according to postage rates.

Price each

- Angele Pernet** (P.).—Dark apricot with a rosy sheen, very attractive, sweetly scented, vigorous grower, branching habit ... 2/-
- Aroma** (H.T.).—Bright red, full and free-flowering, sweetly scented, an improvement on "Gen. McArthur" ... 5/-
- Aureate** (H.T.).—Bright orange-cadmium heavily shaded rosy scarlet; large flowers; sweetly scented ... 2/6
- Autumn** (P.) 1932.—Apricot-gold, tinted coppery red on outside, a wonderful colour; very dark green foliage ... 3/6
- Barcelona** (H.T.) 1933.—Deep crimson with deep velvety shadings, colour keeps well, strong old rose perfume ... 2/6
- Betty Sutor** (H.T.) 1929.—Brilliant metallic pink, paling towards the edges of the petals; good size and shape with high-pointed centre; good stiff stems; strong upright growth; fragrant ... 2/-
- Betty Uprichard** (H.T.).—Orange-pink, a good garden and bedding rose ... 2/-
- Briar Cliff** (H.T.) 1932.—Rose-pink, very fragrant and free-flowering; an improvement on "Columbia" ... 3/6
- Caledonia** (H.T.) 1928.—A pure white of splendid form and good habit, strong grower ... 2/-
- Capt. F. S. Harvey Cant** (H.T.).—Rich salmon-pink faintly veined with scarlet and suffused with yellow; large blooms with high, pointed centre; sweetly perfumed ... 2/-
- Catherine Kordes** (H.T.) 1931.—A startling scarlet with dark shades of crimson; long, pointed bud opening to large blooms of ideal shape; growth resembles "Caroline Testout" ... 2/-
- Chas. H. Rigg** (H.T.).—The colour is vermilion scarlet shading to rose-pink, and the shape is all that can be desired ... 2/-
- Chas. K. Douglas** (H.T.).—Bright crimson-scarlet, vigorous grower and free-flowering ... 2/-
- Charles P. Kilham** (H.T.).—Brilliant nasturtium red, long upright stems, fragrant, a first rate garden and bedding rose ... 2/-
- Claire Desmet** (H.T.) 1933.—Golden yellow suffused cadmium yellow; large sweetly scented flowers on rigid stem ... 2/6
- Clarice Goodacre** (H.T.).—Ivory white, vigorous grower, splendid ... 2/-
- Clovelly** (H.T.).—Much like "America" but lighter pink, shapely blooms on long stiff stems, sweetly scented, vigorous grower ... 2/-
- Colonel Sharman Crawford** (H.T.) 1933.—Rich velvety crimson, reverse heavily veined and shaded deeper crimson, strongly scented ... 5/-
- Columbia**—Bright rose-pink becoming paler as the bloom ages, sweetly scented, growth vigorous and upright, a very fine all round rose ... 2/-
- Comtesse Vandal** (H.T.) 1932.—The colour of the bud is reddish copper with reddish golden bronze which lightens as the bud develops ... 2/6
- Countess of Gosford** (H.T.).—A well formed and sweetly scented bloom, deep salmon-pink with saffron-yellow. Free bloomer ... 2/-
- Daily Mail Scented** (H.T.).—Dark velvety red; good shape and fair substance; free-flowering and a good bedding rose ... 2/-
- Dainty Bess** (H.T.).—Delightful shade of salmon-pink, single blooms in clusters on strong upright stems, robust grower, sweetly scented, splendid bedder ... 2/-
- Dame Edith Helen** (H.T.).—Clear pink, large blooms of good shape and plenty of substance, long stiff stems, sweetly scented ... 2/-
- David McKee** (H.T.) 1933.—Bud crimson-red developing to bright crimson carmine ... 2/6
- Dazla** (P.) 1930.—Brilliant orange-scarlet with golden base; long, pointed buds opening to a large flower, nearly six inches across, semi-double, delightfully waved petals; a wonderful rose of striking and unique colour ... 2/-

DWARF ROSES.

	Price each
Dean Hole (H.T.)—A grand rose, large silvery pink, free flowering ...	2/-
Dr. A. I. Petyt (H.T.)—Intense scarlet shaded maroon, a seedling of "George Dickson," large blooms, perfect high centre, sweetly scented, a very fine rose ...	2/-
Dr. F. Weigand (H.T.) 1931.—Cherry red; long, pointed bud; large, full, high-centred flower; vigorous grower and continuous bloomer ...	2/-
Druschki Rubra (H.T.)—Crimson maroon, long pointed buds, large bloom, upright growth, hardy ...	4/-
Duchess of Wellington (H.T.)—Gives beautiful long pointed buds of deep saffron-yellow, stained crimson, changing to deep copper ...	2/-
Earl Beatty (H.T.)—Deep crimson, fragrant, full, strong grower ...	2/-
Earl Haig (H.T.)—Rich scarlet-crimson, sweetly scented ...	2/-
Edith Nellie Perkins (H.T.) 1928.—Outside of petals light orient red shaded cerise at top and orange at base, inside salmon-pink with golden orange base, long strong stems, vigorous grower ...	2/-
Editor Macfarland (H.T.)—Colour bright rose shaded salmon and capusine red, erect vigorous growth ...	2/-
E. G. Hill (H.T.) 1929.—Large, bold red flowers carried on strong stems, an American Gold Medal rose ...	2/-
E. J. Ludding (H.T.) 1931.—Beautiful satin-pink shaded red and salmon; full, well-formed bloom on strong stem; strong, branching growth ...	2/-
Elizabeth of York (H.T.) 1927.—A rich shade of cerise-pink with a soft flush of orange-salmon through the petals. The flowers have a brilliant iridescence which compels attention ...	2/-
Emma Wright (H.T.)—Pure orange, a fine colour, semi-double, vigorous grower ...	2/-
Essence (H.T.) 1930.—Fiery velvety crimson; long, pointed buds on erect stems; exquisite perfume; strong, bushy growth ...	2/-
Ethel Somerset (H.T.)—Shrimp-coral-pink, a very pleasing shade, vigorous grower, flowers freely and gives some splendid exhibition blooms ...	2/-
Etoile de Holland (H.T.)—Very dark red, full and of good form, delicious perfume ...	2/-
Evert van Dyke (H.T.) 1933.—Colour clear carmine-pink, flowers large full and of regular form on rigid stems ...	2/6
Felix Laporte (H.T.) 1928.—Velvety blackish crimson relieved by shades of lighter red, sweetly scented, vigorous grower, free flowering ...	2/-
F. J. Looymans (H.T.)—Apricot-yellow, suffused saffron ...	2/-
Florence Izzard —Rich yellow and holds its colour well, blooms fairly large and of good form, sweetly scented, a magnificent rose ...	2/-
Fragrance (H.T.)—Scarlet-crimson, sweetly scented, high pointed centre, after the style of "Laurent Carle" but a stronger grower ...	2/-
Francis Gaunt (H.T.)—Fawn apricot ...	2/-
Frank Reader (H.T.) 1927.—Cream with yellow base, large blooms with high pointed centre, good exhibition rose ...	2/-
Frau E. Weigand (H.T.) 1928.—Deep golden yellow resembling "Golden Emblem," flowers large, full and well shaped on strong erect stems, vigorous grower ...	2/-
Frau Karl Druschki (H.P.)—A most beautiful pure white rose. Very strong grower and should be grown as a semi-climber ...	2/-
General Gallieni (T.)—Crimson flushed cream with cream centre, quite distinct, free flowering ...	2/-
General McArthur (H.T.)—A rose we can recommend, large, full and free flowering. Bright crimson ...	2/-
General Stefanik (H.T.) 1933.—The flowers are very large and full, of exquisite colour, violet-blue; carried on a firm stem. (Note: With us the flowers are coming small and if they do not improve later we would not recommend the variety for the Cape) ...	2/-
George Dickson (H.T.)—Very large, deep crimson, velvety blooms, heavily veined. A very strong grower. Fragrant ...	2/-
Glory of Holland (H.T.)—Vivid crimson, fragrant, a good garden and bedding rose ...	2/-
Glory of Steinfurth (H.T.)—Cherry pink, large full bloom, very floriferous ...	2/-
Golden Dawn (H.T.)—Sunflower yellow flushed old rose toning to lemon yellow as the flower ages; large, full and well formed; vigorous grower ...	2/6
Golden Emblem (H.T.)—Cadmium yellow, flaked carmine; Gold Medal N.R.S. ...	2/-
Golden Gleam (H.T.)—Bright buttercup yellow, outer petals flushed and streaked scarlet on the same lines as "Golden Emblem," medium size, free flowering, upright grower ...	2/-

DWARF ROSES.

Price each

Golden Ophelia (H.T.)—Golden yellow. The bloom is slightly fuller than Ophelia, from which it has been produced as a seedling	2/-
Grace Molyneux (H.T.)—Creamy white, centre deep flesh, large and full	2/-
Grenoble (H.T.)—Dazzling scarlet, sweetly perfumed, vigorous and erect growth...	2/-
Gruss an Coburg (H.T.)—Brilliant coppery pink bud, the flower is full and has a changing effect, inside of petals yellow, fawn and brown, outside brownish red; vigorous, erect, fragrant	2/6
Hadley (H.T.)—Dark velvety crimson, fragrant and vigorous	2/-
His Majesty (H.T.)—Carmine crimson, good size and shape, beautifully perfumed	2/-
Hoosier Beauty (H.T.)—Rich velvety crimson with deeper shading and very fragrant, on erect vigorous stems	2/-
Hugh Dickson (H.T.)—A brilliant crimson with scarlet shading, strong grower. A charming rose	2/-
Irish Fireflame (H.T.)—Fine long bud, bright orange crimson, sweetly perfumed, vigorous grower, free flowering, single	2/-
James Rea (H.T.)—Rich, deep, glowing rose colour; stiff petals; enormous size; blooms perfectly formed with high-pointed centre opening full; fragrant	2/-
Janet (H.T.)—Buff yellow. Vigorous grower	2/-
J. G. Glassford (H.T.)—Rich carmine-crimson very sweetly scented, vigorous grower, large well shaped blooms with high pointed centre	2/-
Joan Davis (H.T.) 1927.—Salmon apricot with cerise pink sheen on yellow base, deliciously fragrant	2/-
Joanna Hill (H.T.)—Clear yellow with deeper centre; long bud, good flower; vigorous and upright growth	2/-
Jonkheer J. L. Mock (H.T.)—Carmine changing to pink, large and full. Vigorous grower and carries its blooms on erect stems. Very fragrant	2/-
J. Otto Thilow (H.T.)—Rich rose-pink; long pointed buds of perfect form; strong grower and continuous bloomer	2/6
Julia, Countess of Dartrey (H.T.) 1927.—Rosy cerise, large blooms on long stiff stems, perfect shape, high pointed centre, sweetly scented, vigorous	2/-
Julien Potin (P.)—Rich golden yellow; although some blooms come pale in colour the variety has great merit for general cultivation	2/-
Killarney Queen (H.T.)—Pure deep rose, long and well-shaped bud, strong grower and continuous bloomer	2/-
K. of K. (H.T.)—Pure dazzling scarlet, huge petals, semi-single, vigorous grower	2/-
Kootenay (H.T.)—Primrose, profuse bloomer, good size, form and substance. It has a vigorous and erect growth	2/-
Korovo (H.T.) 1931.—Flowers large and full; colour peach blossom and old rose; the plant is vigorous and continually blooming	2/-
Laddie (H.T.) 1926.—Deep cochineal-carmine flushed orange and scarlet with an orange base. Very free-flowering, bushy habit	2/-
Lady Betty (H.T.)—Deep rose madder in the bud developing into a bright apricot pink with veinings of madder	3/6
Lady Charmion (H.T.)—Scarlet-cherry-red, a very attractive shade, a very pretty decorative rose	2/-
Lady Dixon-Hartland (H.T.)—Deep salmon-pink, a lovely shade, large blooms freely produced, vigorous grower, fragrant	2/-
Lady Forteviot (P.)—Golden yellow deepening to rich ruddy apricot, flowers conical with high pointed centre carried on strong stems	2/-
Lady Helen Maglona (H.T.) 1926.—A very fine dark crimson, richly shaded on the upper sides of the petals, good shape, on stiff upright stems	2/-
Lady Hillingdon (T.)—A highly satisfactory rose, deep apricot yellow, well shaped buds, does well and flowers abundantly	2/-
Lady Plymouth (T.)—Deep ivory cream, very free grower and flowers liberally, large, full, and well formed, excellent	2/-
Lady Sylvia (H.T.)—Prawn pink and apricot; a sport from Madame Butterfly	2/-
Lady Worthington Evans (H.T.) 1926.—Glowing blackish crimson. The petals have a wonderfully finished surface of velvety smoothness. A fine bushy tree of ideal bedding habit	2/-
La France (H.T.)—Silvery rose, delightfully fragrant, an old favourite	2/-
Lamia (H.T.)—Reddish orange. A very fine bedding rose	2/-
Laurent Carle (H.T.)—Deep carmine, vigorous, fragrant	2/-
Leon Chenault (H.T.)—The flowers are enormous, full and perfectly formed; colour tint of "Mdm. Abel Chatenay" but deeper salmon	2/-
Lord Rossmore (H.T.)—Large blooms of globular form; outer petals creamy yellow, centre variously tinted salmon-blush, flesh or pink	2/-

DWARF ROSES.

	Price each
Los Angeles (H.T.)—Coral glow in centre with salmon-pink reflex. A remarkably fine rose ...	2/-
Louise Krause (H.T.) 1931.—Reddish orange changing to lighter orange-yellow; flowers large, full and of fine form and substance; strong, upright growth...	2/6
Lucie Marie (H.T.) 1930.—Buttercup yellow, ground heavily washed and veined apricot-orange and shaded salmon-cerise; large, pointed bud, bloom full, of good size and form, long rigid stems; vigorous, hardy and reliable; sweetly fragrant ...	2/-
Mabel Turner (H.T.)—Bright pink shaded white, reminding one of the old favourite "La France." Shapely blooms on long stiff stems ...	2/-
Madame Abel Chatenay (H.T.)—Salmon pink with deeper centre, vigorous grower, free flowerer, one of the best garden roses ...	2/-
Madame Butterfly (H.T.)—Salmon flesh shaded rose and yellow. The new American sport of "Ophelia" which it closely resembles ...	2/-
Madame Henri Thiebant (H.T.)—Superb long bud on rigid stem; coral carmine flower, very large, full, opening well to coral salmon, shaded orange ...	2/6
Madame Jules Bouché (H.T.)—Porcelain white, vigorous grower ...	2/-
Madge Wildfire (H.T.)—A glorious shade of sparkling Indian red giving a rich and dazzling effect ...	5/-
Malar Ros (H.T.) 1933.—Deep crimson, strongly scented; large pointed egg-shaped bud; large blooms on strong stems; strong upright growth ...	2/6
Maman Cochet (T.)—Rose pink, large and full, a splendid rose ...	2/-
Margaret (H.T.)—A delicate soft pink, long buds opening to beautiful stiff-petalled flowers of good size ...	2/-
Margaret McGredy (H.T.)—Orange-scarlet, yellow at base, very striking colour; good grower and free-flowerer ...	2/-
Marie Adelaide (P.)—Deep orange-yellow, good form, erect stems ...	2/-
Marie van Houtte (T.)—Lemon yellow, bordered pink and streaked at times with carmine. Vigorous grower ...	2/-
Marion Cran (H.T.) 1927.—Deep buttercup yellow, margined and flushed cerise. One of the freest and most perpetual flowering garden and bedding roses ...	2/-
Mary Countess of Ilchester (H.T.)—Crimson-carmine, large and attractive, sweetly perfumed ...	2/-
Maud Cuming (H.T.)—Peach, shaded coral-pink and yellow; large and full; upright and vigorous growth ...	2/-
Max Krause (H.T.) 1931.—Beautiful deep, reddish orange, changing to lighter tone as bloom ages; flowers very large, full, fine pointed form, stiff stems; strong, erect growth ...	3/6
May Wettern (H.T.) 1928.—Rich deep pink, pointed blooms on long erect stiff stems, vigorous grower and free flowerer ...	2/-
Mrs. Beatty (H.T.)—Canary yellow, after the style of "Rev. F. Page Roberts," good shape, upright stems, fragrant, vigorous grower ...	2/-
Mrs. Beckwith (P.)—Bright lemon shaded with white, well formed blooms, fragrant, an ideal bedding rose ...	2/-
Mrs. Bryce Allan (H.T.)—Erect grower and exceptionally free bloomer, shapely bud, large, and full bloom, madder-carmine-rose when fully open ...	2/-
Mrs. Charles Lamplough (H.T.)—Pale lemon, deeper in winter, enormous blooms on long stiff stalks, tea scented, flowers freely for a long period ...	2/-
Mrs. G. A. van Rossem (H.T.) 1926.—The flowers are heavily flamed and shaded dark orange and apricot on golden yellow ground, has stout rigid stems, sweetly perfumed ...	2/-
Mrs. George Shawyer (H.T.)—Brilliant clear rose, large, full and well formed with large petals of good substance, erect stems, free flowerer ...	2/-
Mrs. H. Brocklebank (H.T.)—Creamy white. Vigorous and good ...	2/-
Mrs. Henry Bowles (H.T.)—Warm rosy pink flushed salmon, very fragrant, vigorous grower, free flowerer ...	2/-
Mrs. Henry Morse (H.T.)—Creamy flesh with darker shades and reflexed silvery pink. A shapely bloom and one of the best of the newer varieties ...	2/-
Mrs. Herbert Stevens (T.)—Strong grower and abundant bloomer, beautifully shaped flower, one of the best white roses ...	2/-
Mrs. H. G. Johnson (H.T.)—Colour pretty rose pink deepening at the base and edge of petals to rose madder, large and well formed flowers ...	2/6
Mrs. Mona Hunting (H.T.)—Medium sized blooms, chamois-yellow opening to fawn, a charming decorative rose ...	2/-

DWARF ROSES.

Price each

Mrs. Sam McGredy (H.T.).—Orange-red shaded apricot, reverse of petals red; flowers large and of beautiful form, delicately perfumed; long stems, vigorous	3/6
Mrs. S. Paton (H.T.).—Brilliant orange scarlet carmine, full flowers, beautifully shaped, vigorous grower	2/-
Night (H.T.) 1930.—Deepest blackish crimson, the darkest crimson yet raised; flowers medium size, full and of perfect form; sweetly scented	2/-
Norman Lambert (H.T.).—Golden yellow, excellent	2/-
Ophelia (H.T.).—Salmon-flesh, shaded rose, excellent shape, erect stems, vigorous grower.	2/-
Otto Krause (H.T.).—Colour coppery yellow, vigorous branching growth; large full and perfectly formed flowers	2/6
Padre (H.T.).—Pale orange crimson	2/-
Patience (H.T.) 1926.—Salmon pink shaded orange-scarlet, variable colour, well formed and lasting blooms on good stems	2/-
Paul Lucchini (H.T.).—Colour dark scarlet and velvety crimson, vigorous growth and flowers in profusion	2/-
Phoebe (H.T.).—Creamy white, large, full and well formed	2/-
Pink Pearl (H.T.).—Bright rose-pink shaded neyron-rose; sweetly scented	2/-
Polly (H.T.) 1927.—Pale reddish orange with deep yellow base, well formed blooms very sweetly scented, vigorous and branching habit of growth	2/-
President Herbert Hoover (H.T.).—Cerise blended with orange and gold, long pointed buds, large flowers, fairly full; strong, erect growth	5/-
Prince Charlie (H.T.).—Brilliant coral pink, overlaid with salmon, shading into orange at base of petals	3/6
Prince Felix de Luxembourg (H.T.) 1931.—Deep carmine-red; blooms large and full, splendid form, lasting well; free branching habit, strong grower	2/-
Princess Elizabeth of Greece (H.T.) 1926.—The colour is best described as orange yellow, overlaid with orange lake, and the expanded flowers are exceedingly beautiful	2/-
Radiance (H.T.).—A real beauty, long bud, flowers erect and full, a profuse bloomer, carmine-pink, bright shade, sweetly scented	2/-
Rapture (H.T.) 1927.—Intensely brilliant in its vivid shades of bright apricot, coral pink, rose and gold. Said to be the very best of the "Ophelia" sports	2/-
Red Letter Day (H.T.).—Glowing scarlet-crimson of velvety appearance, profuse bloomer, semi-double. A superb garden rose	2/-
Red Radiance (H.T.).—Has all the good qualities of "Radiance"	2/-
Rev. F. Page Roberts —Orange yellow becoming lighter at edges of petals, sweetly scented, vigorous grower, well-shaped blooms on erect stems	2/-
Richard E. West (H.T.).—A fine yellow variety	2/-
Rose Berkeley (H.T.) 1928.—Deep rosy salmon pink, suffused orange with an orange base, large, full and well shaped	2/-
Rose Dawn .—Deep flesh coloured, Ophelia type, strong grower and free-flowering	2/-
Roselandia (H.T.).—Orange-yellow, good shape, long stiff stems, sweetly scented, a fine bedding variety	2/-
Ruby Manwaring (H.T.).—The blooms are of good form and richly coloured velvety scarlet, opening a rich rosy cerise	2/6
Sachsengruss (H.T.).—Pure satiny rose	2/-
Sensation (H.T.).—Rich velvety crimson-red, shaded deeper crimson, large blooms from a long pointed bud, sweetly scented, vigorous grower	2/-
Shot Silk (H.T.).—Orange-rose overshot with golden yellow, very attractive, fragrant, a good bedding variety, will be wanted for its fine colouring	2/-
Sir David Davies (H.T.) 1926.—A rich rosy crimson, bold flowers of good shape	2/-
Sir Henry Segrave (H.T.) 1932.—Very large, full, beautifully formed flower with high pointed centre, colour primrose yellow with chrome base	2/6
Souv. de Claudius Denozel (H.T.).—Rich crimson-red with vermilion tint, large bloom, fragrant	2/-
Souv. de Claudius Pernet (H.T.).—A fine yellow with deeper centre	2/-
Souv. de Madame Canel (H.T.).—Colour carmine cochineal orange, very brilliant	5/-
Sunburst (H.T.).—Cadmium yellow, long buds	2/-
Sunstar (H.T.).—Orange yellow blended with crimson. Quick grower. Free flowering	2/-
Swansdown (H.T.).—White, sometimes shaded yellow at base; full, well-formed flowers with huge petals; vigorous	2/6
Talisman (H.T.) 1929.—A blending of scarlet and gold; buds long and pointed; vigorous grower	2/-

DWARF ROSES.

	Price each
Therese Schopper (P.) 1933.—A wonderful combination of bronze and orange-red with golden yellow base; flowers large and full; strong grower ...	7/6
Trigo (H.T.) 1931.—Rich yellow, shaded salmon; shapely blooms on long stems; vigorous and branching habit; fragrant ...	2/6
Una Wallace (H.T.)—Bright old rose with deeper centre. Well formed, long stiff stems, upright growth, vigorous habit, sweetly scented ...	2/-
Vlenden (P.)—Flowers of a charming combination of vivid shades, inside of petals reddish old rose and bright rosy scarlet, outside of petals clear ochre yellow and raw sienna, base of petals cadmium yellow ...	2/6
Victory (H.T.)—Glowing scarlet crimson on long wiry stems ...	2/-
Viktoria Adelheid (H.T.) 1933.—Deep golden yellow, pure yellow reverse; has a red tint which increases as the flower ages; scented and a strong grower ...	6/-
Ville du Paris (P.) 1926.—Sunflower yellow; nice form; vigorous growth ...	2/-
W. E. Chaplin (H.T.) 1929.—Deep crimson, deepening to carmine-crimson, blooms a good shape, nice pointed centre, opening full; vigorous; fragrant ...	2/-
Westfield Scarlet (H.T.)—Vermilion scarlet without any shading ...	3/6
Westfield Star .—A yellow sport from "Ophelia" and of similar habit of growth ...	2/-
W. E. Wallace (H.T.)—Orange-buff, sweetly scented, strong upright growth, good shape, massive petals, long upright stems ...	2/-
White Ensign (H.T.)—Pure white flushed delicate cream at the very base of petals, medium sized shapely blooms of good substance carried erect on long stems, strong grower ...	2/-
Wm. E. Nickerson (H.T.) 1928.—Large rich glowing orange-cerise flowers, vigorous grower ...	2/-
Wm. F. Dreer .—Golden yellow flushed and shaded deep peach and old gold, full and well formed, a good garden and decorative rose ...	2/-
W. R. Smith (T.)—White tinged blush. Excellent ...	2/-
Yellow Frau Karl (H.P.)—A lemon yellow sport from the well known white variety, has the same habit of growth ...	2/-
Yvonne d'Huart (H.T.) 1933.—Coral-red changing to Lincoln-red when fully open, base of petals chrome yellow ...	5/-

CLIMBING ROSES.

Prices: Varieties priced at 2/- are 10/- for six, 18/- per dozen, 70/- per 50, 130/- per 100. Higher prices are reduced 6d. each when included in a dozen or larger quantity.

Packing and Postage: 1/6 per dozen, 1/- per $\frac{1}{2}$ dozen, 9d. per $\frac{1}{4}$ dozen or less. This includes packing and postage within the Union of South Africa only. Other parts extra according to postage rates.

	Price each
Daily Mail Scented (Climbing).—A sport of the "Daily Mail Scented Rose," velvety crimson in colour ...	2/-
Emma Wright (Climbing), 1933.—A strong growing, well defined climbing form of this esteemed variety, possesses all the good points of its parent ...	3/6
Etoile de Holland (Climbing), 1933.—A very vigorous sport, possessing the free flowering character of the normal type ...	2/-
General McArthur (Climbing) (H.T.)—Bright scarlet crimson ...	2/-
Golden Emblem (Climbing).—A very vigorous climber; a sport from the popular dwarf variety ...	2/-
Golden Ophelia (Climbing) (H.T.). Yellow, edges of petals cream ...	2/-
Hadley (Climbing) (H.T.)—A climbing form of the popular dark velvety crimson "Hadley" ...	2/-
Lady Hillingdon (Climbing) (H.T.)—Deep orange yellow ...	2/-
Lemon Pillar (H.N.)—Sulphur yellow ...	2/-
Los Angeles (Climbing)—A climbing sport of this splendid rose which should become very popular ...	2/-
Madame Abel Chatenay (Climbing) (H.T.)—A climbing sport of "Madame Abel Chatenay" ...	2/-
Madame Butterfly (Climbing); (H.T.)—Almost identical to its parent and very sweetly scented ...	2/-
Mermaid (Hy. Brac.)—Sulphur yellow; huge single blooms, 5 in. across ...	2/-
Mrs. Aaron Ward (Climbing) (H.T.)—Indian yellow, edge of petals white ...	2/-
Mrs. Herbert Stevens (Climbing) (T.)—A climbing sport of the well known variety ...	2/-

CLIMBING ROSES.

Price each

Mrs. Henry Morse (Climbing) (H.T.).—Creamy flesh with darker shades and reflexed silvery pink, a shapely bloom	2/-
Ophelia (Climbing)—In every respect excepting growth, which is of the greatest vigour, this rose is identical with the original Ophelia	2/-
Paul's Scarlet Climber .—Deep brilliant crimson	2/-
Radiance (Climbing) (H.T.) 1926.—Carmine pink, a climbing sport of the favourite dwarf "Radiance." Very vigorous.	2/-
Shot Silk (Climbing).—In every detail, excepting growth, identical with the normal type	2/-
Sinica Anemone .—Silvery rose, large single flowers. Very charming	2/-
Souvenir de Madame L. Vienne (T.).—Rich rose pink, strong grower, free flowering and distinct	2/-
Sunburst (Climbing) (H.T.).—Cadmium-yellow to creamy white, variable. Vigorous grower	2/-

POLYANTHA POMPON ROSES.

(Bedding Types)

No pruning is necessary for these except to remove the flower stems of the past season.

Prices: Varieties priced at 2/- are 10/- for six, 18/- per dozen, 70/- per 50, 130/- per 100. Higher prices are reduced 6d. each when included in a dozen or larger quantity.

Packing and Postage: 1/6 per dozen, 1/- per $\frac{1}{2}$ dozen, 9d. per $\frac{1}{4}$ dozen or less. This includes packing and postage within the Union of South Africa only. Other parts extra according to postage rates.

Price each

Cameo (Poly. Pom.) 1933.—Oriental red or light reddish pink	2/-
Cecile Brunner (Poly. Pom.).—Blush white, shaded pale rose. Suitable for bedding and edging, one of the best of this class	2/-
Coral Cluster (Poly. Pom.).—A glowing coral. Suitable for edging or massing	2/-
Diana (Poly. Pom.).—Dark orange, suffused carmine; large clusters	2/-
Edith Cavell (Poly. Pom.).—The best double dark red dwarf Polyantha	2/-
Gloria Mundi (Poly. Pom.) 1930.—Glowing orange, very striking and sure to be in great demand; winner of numerous awards	2/-
Golden Salmon (Poly. Pom.) 1926.—Beautiful vivid golden salmon; large trusses; lasts well	2/-
Pierre Cormier (Poly. Pom.) 1926.—Brilliant scarlet-red flowers with a lighter centre in clusters of from 10 to 20 large full blooms, good grower	2/-
Pride of Hurst (Poly. Pom.) 1926.—Pretty coral pink flowers in clusters	2/-
Salmon Queen (Poly. Pom.).—Splendid for bedding, a very attractive shade of deep salmon	2/-
Sunshine (Poly. Pom.) 1928.—Buds bronzy red opening to bright orange fading to orange and buff, very distinct, flowers freely with 12 or 18 or more blooms in a truss	2/-

RAMBLER ROSES.

Prices: Varieties priced at 1/3 are 6/6 for six or 12/- per dozen.

Packing and Postage: 1/6 per dozen, 1/- per $\frac{1}{2}$ dozen, 9d. per $\frac{1}{4}$ dozen or less. This includes packing and postage within the Union of South Africa only. Other parts extra according to postage rates.

Price each

American Pillar (W.).—Clear rose with pink centre. Single flowered. Bold glossy foliage	1/3
Banksia Alba (1807).—Thornless branches of small double white flowers in clusters, climbing habit, sweetly scented	1/3
Dorothy Perkins (W.R.).—Beautiful clusters of bright rose-pink flowers. A very great favourite	1/3
Emily Gray (H.W.).—Yellow with glossy foliage of great substance. Grand Wichuriana.	1/3
Excelsa (W.R.).—Bright rosy crimson. Vigorous	1/3
Golden Rambler .—Canary yellow with crimson splashes	2/-

RAMBLER ROSES.

Price each.

Heart of Gold (H.W.)—This rose is a very deep crimson with a band of clear white separating the crimson from the gold, an exceptionally healthy and hardy grower	... 1/3
Hiawatha (W.R.)—Rich crimson with white eye; single flowers in great profusion; a truly brilliant Rambler.	... 1/3
Jacotte (W.R.)—Large semi-double blooms in clusters; a coppery shade with saffron yellow base	... 1/3
Romeo .—Deep red. Double and of perfect form. Excellent for buttonholes.	... 1/3
Sander's White (W.R.)—Pure white, the best white Rambler	... 1/3
Shower of Gold (W.R.)—Golden yellow, changing to pale yellow. Effective foliage	... 1/3
Tausendschon (M.R.)—Rose pink. Semi-double rosette flowers. Dense foliage. Very fine	... 1/3
Theima (H.W.) 1926.—Soft blush pink, a rampant grower of the Tausendschon type, very persistent bloomer	... 1/3
The New Dawn (W.R.)—Soft blush; sport of Dr. van Fleet, like its parent in every way but a continuous bloomer	... 2/-
Yvonne —Shell pink. Vigorous grower. Large trusses	... 1/3

STANDARD ROSES.

The following varieties have been budded for 3 foot Standards.

Prices are for local delivery or f.o.r. Rosebank. These plants can not be sent by post owing to the length being greater than the regulations will allow.

Price each: 3ft.				Price each: 3ft.			
Betty Uprichard	...	...	5/-	Mrs. George Shawyer	...	...	5/-
Columbia	...	...	5/-	Mrs. Herbert Stevens	...	...	5/-
General McArthur	...	...	5/-	Radiance	...	...	5/-
Glory of Holland	...	...	5/-	Rev. F. Page Roberts	...	...	5/-
Golden Ophelia	...	...	5/-	Talisman	...	...	5/-
Lady Hillingdon	...	...	5/-	Victory	...	...	5/-
Madame Butterfly	...	...	5/-				

THE NEW NORCROSS GARDEN GROWER



IT WEEDS
IT PLOUGHS
IT MULCHES
IT CULTIVATES

NORCROSS GARDEN GROWER - No. E10, 10-in., £2 5s.
(Spare Parts Stocked) No. E8, 8-in., £2 2s.

WE BELIEVE IN BETTER SEEDS. WON'T YOU TRY THEM?

NOTES FOR APRIL.

SOIL HEAT. By "EDEN."

Most of us, nowadays, are prepared to recognise that all forms of biological activity, whether it is the growth of an animal or of a plant, are an expression of energy, and that this activity will not continue unless certain temperature relations are maintained.

With plants this heat relation has two phases, the temperature of the air and that of the soil.

The temperature of the air is of course a climatic factor and, except in glass houses and by the use of windbreaks, is beyond our control.

Nor is it possible for us to control the temperature of the soil to any very great extent, except on very limited areas; yet soil management methods provide means by which small but biologically vital modifications can be made.

Climatically these modifications may be unimportant, but from a practical point of view they are worthy of careful consideration. Normal plant growth practically stops at a temperature below 40° F., while the germination of most seeds does not take place until the soil temperature rises well above this point.

It is a great mistake to place seeds or plants in a soil where growth activities will not take place at once, because harmful bacteria and fungi, which are generally active at low temperatures, will sap their vitality and may even cause their destruction.

Three groupings of garden plants may be made, as far as their temperature requirements are concerned.

There are those which will grow at relatively low temperatures; most of our spring flowering bulbs belong to this class.

Most shrubs, herbaceous perennials, and many annuals require a medium temperature for proper growth while zinnias, gladioli and asters typify plants the heat requirements of which are very high.

This classification is not so apparent with garden plants as it is with farm crops. With farm crops, for instance, wheat and most cereals of that type are representative of crops which germinate and grow at relatively low temperatures. Maize, sorghums and millets require medium temperatures, while melons and pumpkins require high temperatures.

Most desirable biological activities, especially those due to bacteria, are impeded, if not brought entirely to a standstill, when the temperature falls as low as 32° F.

Such changes as decomposition of organic matter, the formation of nitrate nitrogen from ammonia, and the fixation of atmospheric nitrogen, take place most rapidly at temperatures which, fortunately, are just those most suited to the growth of plants.

The chemical reactions which take place in the soil to produce available plant food are retarded by low temperature. In fact, the higher the temperature rises the more rapidly does plant food become available, provided of course that there is sufficient moisture in the soil. In the tropics, for instance, soil weathering is much more rapid and intense than in temperate regions.

Heat has an important effect on the physical changes which take place in the soil.

Such phenomena as percolation, evaporation, the movement of soil water, the diffusion of gases, vapours and salts in solution are influenced by temperature variation.

Soils breathe just as we do, and the aspiratory effect of even a slight change of temperature is often sufficient to entirely renew the oxygen supply to a considerable depth.

In order to understand the practical and scientific relationships involved in even a partial control of soil heat, it is necessary to understand something of the manner in which the energy, or heat as we call it, from the sun, is absorbed by the soil.

Due to the gases of the atmosphere and especially to clouds and dust only about a quarter of the sun's energy actually strikes the earth's surface. Much of this is immediately reflected and is lost as radiant energy.

The amount of this reflection is influenced to a marked degree by the nature of the soil surface.

It is well known for instance that a black surface absorbs more energy than a white one under similar conditions. This is because of a difference in reflection, a white surface being more effective in this respect. Investigators have shown that this applies to soil.

The addition of organic matter, which has a tendency to darken the colour of the soil, will increase the heat absorption capacity of such a soil; and what is more, it will increase the temperature to a greater depth.

SOIL HEAT.

You may have noticed that the surface of a white sandy soil becomes very hot on a warm day, while that of a dark coloured soil remains cool. This is because the heat is being absorbed by the dark soil while in the case of the white sand the reflection heats the air on the surface. Soon after sunset the white surface will feel cool while the dark soil which has absorbed the heat will remain warm.

Not only does the colour of a soil influence its capacity to absorb heat; the angle at which it lies in relation to the sun also has a marked effect.

During winter the sun's rays strike the earth obliquely, that is, of course, in the southern and northern hemispheres, but if the surface of the soil lies at such an angle that it is at right angles to the sun's rays, such a soil will receive more heat per unit of its area than would a soil on the level. Of course a soil lying at an angle in the other direction would receive even less than the flat surface.

In the southern hemisphere then, a soil with a northerly inclination would be considerably warmer than one sloping south.

The actual rise in temperature of a soil is not by any means in direct relation to the amount of heat which that soil absorbs.

In other words two soils receiving and absorbing the same amount of heat may show a marked difference in temperature.

This variation is influenced by three factors: (1) The specific heat of the soil; (2) the rate at which the heat moves to other parts of the soil mass; and (3) the losses of heat to the atmosphere.

The specific heat of a soil is the amount of heat required to raise its temperature in comparison with the amount of heat required to raise the temperature of the same amount of water. Here again organic matter plays an important part in soil improvement.

Organic matter will lighten and loosen a soil and so lower the volume weight; moreover its specific heat is low. Thus its addition tends to lower the amount of heat required to raise the temperature of the soil.

The most important factor, however, which will influence the specific heat of a soil, is the amount of water which it contains.

The amount of heat required to raise the temperature of water is several times greater than that for soil, so that a soil which might warm up easily when on the dry side will remain cold when excessively wet. Drainage, therefore, is of the utmost importance if we expect our soils to be in the right condition for plant growth early in the spring.

Heat is transferred in the soil itself in two ways; by conduction and convection. Conduction is the transfer of heat between the stationary materials composing the soil, while convection is carried on largely through the movements of soil air and soil moisture. These methods of energy transfer are extremely difficult to analyse because it is impossible to control the one while studying the other.

However, investigation has shown that a soil that has been well compacted after being deeply worked and which at the same time contains sufficient moisture for the best growth of plants is in the most favourable condition for the rapid transfer of heat through the soil.

The heat absorbed by the soil is of course being continually lost again and whether its temperature rises or falls will depend upon whether the amount received is greater or less than the amount lost. Heat is lost from the soil by radiation, conduction and evaporation.

The evaporation of moisture from the soil surface tends to reduce the temperature, but the loss on this account is small compared with that lost in radiation and conduction. It is possible to reduce these losses to some extent by improving the texture of the soil and by reducing the too rapid movement of air over the soil surface.

From what I have told you it is fairly obvious that the most important factor in the control of soil heat is obviously moisture.

Good drainage, good cultivation and the addition of sufficient organic matter, favour the best moisture conditions: such moisture regulation means a lowered specific heat, rapid conductivity and good convection.

The increase of soil organic matter acts directly in heat control by darkening the colour and thus increasing heat absorption.

A soil mulch being dry not only checks evaporation but at the same time lowers the amount of radiation. Any method of handling the soil which tends to benefit its physical condition, improve its tilth and control its moisture helps towards a proper heat control.

In fact, the whole question may be summarised by saying that if a gardener adopts a proper system of moisture control and at the same time employs methods that continually encourage a better physical condition of the soil the problem of soil heat will be solved automatically.

PROSPERITY COMES AGAIN.

Believe it or not, prosperity is returning and there will be a greater demand for all **Poultry Produce**. More eggs will be wanted and more hens to lay them. More table poultry will be wanted and you must provide them.

You cannot provide for this increasing demand unless you grow more chickens. Your broody hens, if you keep them, will not be able to hatch the chickens fast enough, and unless they are super-broody hens they will not be able to hatch them so well as a

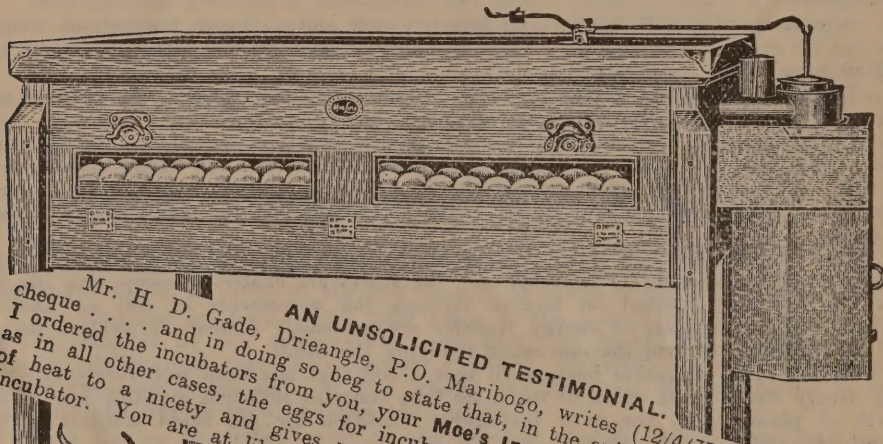
MOE'S INCUBATOR.

Super-broody hens are not much use for any other purpose than sitting, anyway, so why keep broody hens at all? A good incubator is more efficient and more economical and you have no difficulty about arranging for it to be broody when the eggs are ready. Not so the hen. She is usually broody when you want her to lay the eggs, not when you want her to hatch them!

We have been handling the Moe's Incubators for many years now and we have no hesitation in saying that it is **the most trouble-free incubator** that we have ever handled, and we have handled many makes.

Moe's Incubator is also the cheapest machine that will serve the purpose of the serious poultry breeder. It is a real business machine that has proved itself. Order yours now! Don't wait until the eggs are ready and risk delays, order now!

Moe's Incubators



AN UNSOLICITED TESTIMONIAL.
Mr. H. D. Gade, Drieangle, P.O. Maribogo, writes (12/4/33): "I am enclosing cheque . . . and in doing so beg to state that, in the opinion of the parties for whom I ordered the incubators from you, your **Moe's Incubators** are second to none provided, as in all other cases, the eggs for incubation are fit! It is an automatic controller of heat to a nicety and gives practically no trouble, and equal to any high-priced Incubator. You are at liberty to use this unsolicited testimonial."



C. STARKE & CO., Ltd.,
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Prices:

No. E165.	1 Tray	18½ in. x 19½ in.	85 eggs	£5 10 0
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Note: No. E174 is a double-decker.

Delivered free on rail Rosebank Station or to any address within our delivery radius.

For Cash With Order we will pay the railage to any Station within the Union of South Africa or you can pay the railage and take 5 per cent. discount.

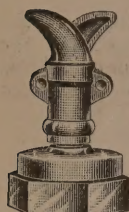
NOVELTIES AND NEW PRICES.

Prices are continually fluctuating and it is therefore impossible to maintain the prices printed in our last catalogue until the next issue appears. The following alterations have become necessary since we last published a revised list and we shall be glad if you will record these prices in your copy of our 1934-5 Catalogue so that you may have correct information when making up your order:

Page	Article	Per	1	5	25	100lb.
18	Beans, Epicure. —An excellent runner bean ... ..	...	1/3	5/6	25/-	95/-
		Per	oz.	$\frac{1}{4}$ lb.	lb.	5lb.
21	Carrot, Oxheart. —Price reduced ... ..	...	6d	1/9	5/-	23/9
29	Cauliflower, Gilt Edge. —Additional variety ... ..	...	4/6	16/-	60/-	—
40	Marjorum, Sweet. —Price reduced ... ..	...	2/6	—	—	—

Additional Varieties of Antirrhinum Maximum.

	Per	pkt.	$\frac{1}{4}$ oz.	oz.	4oz.
43 Copper King. —Nopal red	6d	3/6	12/6	—
43 Maralda. —Coppery carmine	6d	3/6	12/6	—
43 Old Gold. —Orange with old-rose	6d	3/6	12/6	—
43 Rose. —Pure rose	6d	3/6	12/6	—
43 Ruby. —Carmine	6d	3/6	12/6	—
64 Sweet Sultan, Yellow. —Centaurea suaveolens	6d	1/3	4/-	13/6
65 Viola, Golden Sovereign. —Rich apricot-orange, a most attractive new variety	Per 25 seeds 1/- ; 100 seeds 2/6	—	—	—	—

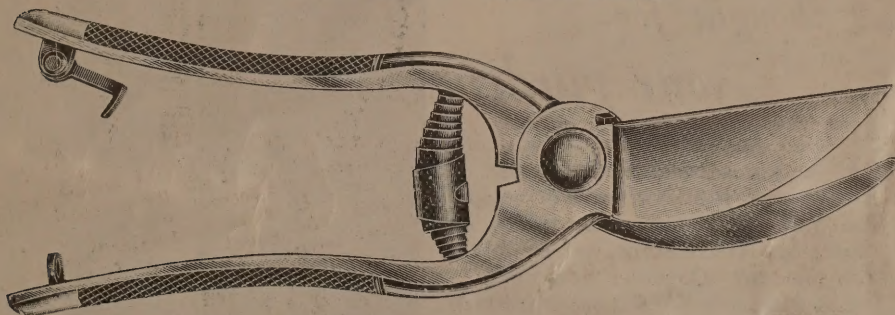


“AUSTRALIAN” SPRINKLER TOPS.

Gives a finer spray than other Sprinkler Heads and is a trouble-free appliance.

To fit	$\frac{3}{8}$ in.	$\frac{1}{2}$ in.	1in.	Iron Pipe Thread.
	2/-	2/6	3/6	(Postage 2d., 4d., 4d.)

“VINEYARD” SECATEURS.



No. F563. 8 $\frac{3}{4}$ in. long, B Spring. Price 8/9. Postage 6d.

APPRECIATIONS.

Port Elizabeth, March 7th, 1935.—The Gladiolus and Daffodil bulbs ordered a few weeks ago have arrived in good order. Their quality is your usual high standard and I am very pleased with them.

Port Elizabeth, February 13th, 1935.—The Tree Carnations are growing and flowering well.

Scotland, February 20th, 1935.—The beautiful flowers arrived here in Christmas week and I am very glad to tell you they were in splendid condition and have been very much admired.

Steinkopf, February 25th, 1935.—I beg to thank you for sending the two Grana-dillas (transplants), and to say that they arrived here in perfect condition, and I thank you for the care and trouble you took in the matter.

NOTES FOR RHODESIA FOR APRIL.

Contributed by MEIKLES (GWELO) LTD.

Flower Garden.—If sufficient water is available, many good flowers may be grown for winter flowering. Some good ones are: Snapdragon, Calendula, Dianthus, Coreopsis, Gaillardia, Lupins, Phlox, Larkspur, Venidium and Nemesia. The latter does well in Rhodesia and gives blooms of every conceivable colour. It is excellent for cut blooms. There are several varieties, but Nemesia Strumosa is accepted as being the best and easiest grown. Like the Venidiums it is indigenous to South Africa. Dimorphotheca and Ursinia are of the same family as Venidium, also Arcotis Grandis, which is practically self-setting and needs a lot of control.

Sweet Peas for continuous blooming should still be planted at intervals.

Much trouble is caused among Palms and Ferns by the presence of Scale; spraying must not be resorted to, but the Scale must be removed by a small brush using a mild soap solution. Isolate the ones affected and treat them carefully. In the case of Maidenhair Ferns it is sometimes best to cut off the infected fronds. There are many other kinds of scale and aphids affecting garden plants and roses. These all require attention, and should be got rid of. There are also solutions which can be purchased all ready mixed, for the destruction of these pests, only needing water to be added.

Vegetable Garden.—This month is excellent for the Vegetable Garden, as the hot sun is less violent, and less shading is required. Seeds such as Beet, Carrot, Early Cabbage, Onion, Spinach, Turnip, and Green Peas (largely) should be planted. Cultivation must be persisted in, to conserve moisture as far as possible.

RHODESIAN PRICES.

It is obviously impossible to sell our seeds, and other goods, in Rhodesia, at the prices quoted in this paper, but Messrs. Meikles (Gwelo) Ltd. will supply you at the lowest possible prices when railage and similar charges are taken into account. Please communicate with them if you wish for an exact quotation on any article mentioned in these pages.

A thought for your garden

YOUR garden is laid out with care and forethought. A carpet of green, with a background of colour. Do you not think a bird-bath in Table Mountain Stone will complete the picture? Consider how delightful it will be to have a beautiful bird sanctuary. Write or call at Messrs. Chas. Ayres, Adderley Street, Cape Town, for full particulars.

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This is the "Swan Neck" design Bird Bath and is only one of the many beautiful designs obtainable.